

Kennecott
Utah Copper
P.O. Box 525
Bingham Canyon, Utah 84006-0525
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12/035/002

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Wayne Helly
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file

Frederick D. Fox
Director, Environmental Affairs

DIVISION OF
OIL GAS & MINING

Kennecott

May 11, 1992

Mr. Lowell Braxton
Utah Department of Natural Resources
Division of Oil, Gas, and Mining
355 West North Temple
III Triad Center, Suite 350
Salt Lake City, UT 84180-1203

Subject: Kennecott Utah Copper (KUC) Environmental Actions for the
Bingham Creek Large Reservoir

Dear Mr. Braxton:

Attached is the Administrative Order on Consent and the work plan, approved by the U.S. Environmental Protection Agency Region VIII (EPA), for the Bingham Creek Large Reservoir Sludge removal project. Preliminary work under this plan is ongoing and was initiated on oral approval from EPA.

Current plans are to drain the Large Reservoir, remove approximately 350,000 CY of sludge and underlying copper tailings from the upper third portion of the reservoir, re-line the exposed reservoir base, and establish the resulting new reservoir as a storm water retention basin. The new reservoir will function as an integral part of the KUC stormwater control program. Information is included that describes the reclamation practices that will be employed to revegetate the site and the final seed mix (see Attachment No. 1). Final grading and revegetation is anticipated for completion in the Fall of 1994.

This project involves relocating the material to a permanent repository on the eastside waste dumps. Removal of this material will facilitate construction of a lined storm water collection structure. Kennecott has undertaken this project in coordination with EPA and State agencies to insure that potential environmental concerns are addressed.

STRATHMORE WRITING

25% COTTON FIBER

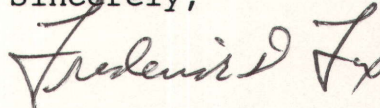
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Please review the attached information concerning the environmental plans. Kennecott is providing this information in an effort to keep the Division of Oil, Gas and Mining (DOGM) informed of our mining related activities. KUC would be interested in your observations and comments with regard to the work plan.

Please contact me at 569-6555, if you would like to discuss this project in further detail.

Sincerely,

A handwritten signature in dark ink, appearing to read "Frederick D. Fox". The signature is fluid and cursive, with the first name "Frederick" being more prominent and the last name "Fox" ending in a stylized flourish.

Frederick D. Fox
Director, Environmental Affairs

DD:dbw

Attachment

ATTACHMENT NO. 1
Reclamation Practices

Reclamation practices to be used will include tilling and drill seeding, broadcast seeding by hand and/or hydroseeding. A 16-16-8 fertilizer will be applied at a rate of 250 pounds per acre. Depending upon terrain, fertilizer and organic matter/mulch may be applied by a spreader pulled by a tractor, by hand broadcast, or as a component of the hydroseeding application. Tilling and drill seeding will be accomplished using a tractor pulling a suitable tilling/seeding implement. Desired depth of seed placement is 1/2 to 3/4 inch below ground surface. In no case shall the seeding depth exceed 1/2 inches. Broadcast seeding by hand or hydroseeding will be utilized on steeper slopes. The seed mixture to be used is:

FINAL RECLAMATION SEED MIX

| <u>Species</u> | | <u>Rate*</u> <u>(lbs./acre)</u> |
|---------------------------------|----------------------------|------------------------------------|
| <u>Grasses</u> | | |
| <u>Agropyron dasystachyum</u> | (thickspike wheatgrass) | 2.0 |
| <u>Agropyron intermedium</u> | (intermediate wheatgrass) | 2.0 |
| <u>Agropyron smithii</u> | (western wheatgrass) | 2.0 |
| <u>Agropyron trachycaulum</u> | (slender wheatgrass) | 1.5 |
| <u>Agropyron trichophorum</u> | (pubescent wheatgrass) | 2.0 |
| <u>Oryzopsis hymenoides</u> | (indian ricegrass) | 1.0 |
| <u>Forbs</u> | | |
| <u>Achillea millefolium</u> | (yarrow) | .1 |
| <u>Aster Chilensis</u> | (Pacific aster) | .1 |
| <u>Hedysarum boreale sp.</u> | (Sweetvetch) | 1.0 |
| <u>Linum lewisii</u> | (Lewis flax) | .5 |
| <u>Medicago sativa</u> | ('Ranger' alfalfa) | 1.0 |
| <u>Melilotus officianalis</u> | (yellow sweetclover) | 1.0 |
| <u>Penstemon strictus</u> | (Rocky Mountain penstemon) | .2 |
| <u>Shrubs</u> | | |
| <u>Purshia tridentata</u> | (antelope bitterbrush) | 2.0 |
| <u>Cowania mexicana sp.</u> | (Stansbury cliffrose) | .1 |
| <u>Artemisia tridentata sp.</u> | (big Sagebrush) | 2.0 |
| <u>Chrysothamnus nauseosus</u> | (rubber rabbitbrush) | 1.5 |
| <hr/> <u>Total Seed</u> | | 20.0 |

*Rate is in terms of Pure Live Seed (PLS) for drill seeding only.
The rate for broadcast seeding is double the drill rate.